INDEX TO VOLUME IV

A

ABBOTT, E. J.: Calibration of condenser microphones for soundmeters, 235–244

—— Short time variations in the sensitivity of condenser transmitters, (Abstract) 4

ALBERSHEIM, W. J. AND J. P. MAXFIELD: Acoustic constant of enclosed spaces correlatable with their apparent liveness, (Abstract) 8

ALDERMAN, GEORGE W.: (see Jones, Arthur Taber) 331–343

B

BALLANTINE, STUART: Automatic logarithmic recorder for frequency response measurements, (Abstract) 10

BEDELL, E. H. AND K. D. SWARTZEL, JR.: Measurement of transmission loss through partition walls, (Abstract) 171–172

BLACKMAN, R. B.: (see Wegel, R. L.) (Abstract) 6

BOURGIN, D. G.: Quasi-standing waves in a dispersive gas, 108–111

BRAY, C. W.: (see Wever, E. G.) (Abstract) 10

C

CHAPIN, ERNEST K. ANL F. A. FIRESTONE: Interference of subjective harmonics, (Abstract) 176

COLWELL, R. C.: Related nodal lines on Chladni plates, (Abstract) 3

COTTON, J. C.: Resonant characteristics of soft-walled cavities, (Abstract) 175

CRISLER, V. L. AND W. F. SNYDER: Automatic reverberation meter for sound absorption, (Abstract) 7–8

——, W. F. SNYDER AND CATHERINE E. MILLER: Some of the factors which affect measurement of sound absorption, (Abstract) 8

—— AND CATHERINE E. MILLER: Effect of rotating vanes in a reverberation room, (Abstract) 172

E

EYRING, CARL F.: Methods of calculating the average coefficient of sound absorption, 178–192

F

FARNSWORTH, D. W.: (see Steinberg, J. C.) (Abstract) 5

FIRESTONE, F. A.: New analogy between mechanical and electrical systems, 249–267, (Abstract) 5

—— (see Chapin, Ernest K.) (Abstract) 176

—— (see Geiger, P. H.) (Abstract) 6

FLANDERS, P. B.: Method of measuring acoustic impedance, (Supplement to July, 1932) 402–410, (Abstract) 9

—— (see Harrison, H. C.) (Supplement to July, 1932) 451–461, (Abstract) 4–5

FLETCHER, H.: Loudness, its definition, measurement and calculation, (Abstract) 7

FREDERICK, H. A.: Recent fundamental advances in mechanical sound records on wax disks using vertical cut-demonstration, (Abstract) 7

G

GEIGER, P. H. AND F. A. FIRESTONE: Estimation of fractional loudnesses, (Abstract) 6

GIANNINI, G. M.: Some improvements on the operation of the bells of a carillon, 245–248, (Abstract) 5

H

HALL, WILLIAM M.: A miniature condenser transmitter for sound-field measurements, 83–93

HANSON, R. L.: Acoustic measuring instruments, (Abstract) 10

HARRISON, H. C. AND P. B. FLANDERS: Efficient miniature condenser microphone system, (Supplement to July, 1932) 451–461, (Abstract) 4–5

HERSHBERGER, W. D.: Supersonic interferometer and absorption measurements, 273–283, (Abstract) 173–174

HILL, A. P.: Combined reverberation time of electrically coupled rooms, 63–68

HUBBARD, B. R.: Position finding by underwater sound signals, 138–154, (Abstract) 9

HUBBARD, J. C.: Brief survey of supersonics, 99–107
—— Methods and results of supersonic interferometry, (Abstract) 172–173

J

JONES, ARTHUR TABER: Reed organ to demonstrate the just scale (Abstract) 3–4
—— AND GEORGE W. ALDERMAN: Component from a bell, 331–343

K

KELLOGG, EDWARD W.: Estimating room errors in loud speaker tests, 56–62, (Abstract) 8
KELLY, J. B. AND H. C. MONTGOMERY: Variation of hearing acuity with age (Abstract) 5–6
KNUDSEN, VERN O.: Resonance in small rooms, 20–37, (Abstract) 9

L

LAWLOR, REED: Sound absorption in non-reactive gas mixtures, 284–287
LIFSHITZ, SAMUEL: Acoustics of large auditoriums, 112–121
LINDSAY, R. B. AND F. E. WHITE: Theory of acoustic filtration in solid rods, 155–168
LOAR, LLOYD: Electrically produced tone from string vibration, (Abstract) 172

M

MASSA, FRANK: (see Wolff, Irving) 217–234
MAXFIELD, J. P.: Acoustic pick-up for Philadelphia orchestra broadcasts, 122–128, (Abstract) 7
—— (see Albersheim, W. J. (Abstract) 8
MILLER, CATHERINE E.: (see Chrisler, V. L.) (Abstracts) 8, 172
MILLER, DAYTON C.: Anecdotal history of the science of sound, with some personal reminiscences, (Abstract) 174
MILLINGTON, G.: Modified formula for reverberation, 69–82
MONTGOMERY, H. C.: (see Kelly, J. B.) (Abstract) 5–6
MORITA, SAKAE: (see Obata, Juichi) 129–137
MUNSON, W. A.: Experimental determination of the equivalent loudness of pure tones, (Abstract) 7

O

OBATA, JUICHI AND SAKAE MORITA: On the accuracy of the aural method of measuring noises, 129–137
OPLINGER, K. A.: (see Osbon, W. O.) (Abstract) 176
OSBON, W. O. AND K. A. OPLINGER: New portable meter for noise measurements and analysis, (Abstract) 176

P

PARKINSON, JOHN S. AND PAUL O. YOUNG: Facts developed in the design and construction of the Johns-Manville Acoustical Laboratory, (Abstract) 171
PENMAN, H. L. AND E. G. RICHARDSON: Absorption by porous materials at normal incidence—a comparison of theory and experiment, 322–330
PIELEMEIER, W. H.: Velocity and absorption measurements at supersonic frequencies, (Abstract) 174

R

REID, C. D.: Studies in supersonics, (Abstract) 174
RICHARDS, W. T.: Some chemical aspects of the dispersion and absorption of sound, (Abstract) 173
RICHARDSON, E. G.: Note on supersonic methods, (Abstract) 177
—— (see Penman, H. L.) 322–330
RIESZ, R. R.: Relationship between loudness and the minimum perceptible increment of intensity, 211–216, (Abstract) 6
—— (see Wegel, R. L.) (Abstract) 6

S

SABINE, PAUL E.: Transmission of sound through doors, (Abstract) 8
—— Weight as a determining factor in sound transmission, 38–43
SCHMID, F. C.: (see Stanton, G. T.) 44–55, (Abstract) 8
SETTE, W. J.: New reverberation time formula, 193–210, (Abstract) 8
—— (see Wolf, S. K.) (Abstract) 172
SIMMIONS, LOUIS: Laryngoscopic observations on the parabolic action of the epiglottis in controlling the directional power

of the low, middle and high frequencies of the singing voice, (Abstract) 4

SIVIAN, L. J. AND S. D. WHITE: On minimum audible sound fields, 288–321, (Abstract) 176–177

SNYDER, W. F.: Sound measurements on experimental airplane mufflers, (Abstract) 176

—— (see Chrisler, V. L.) (Abstracts) 7–8, 8

STANTON, G. T. AND F. C. SCHMID: Acoustics of broadcasting and recording studios, 44–55, (Abstract) 8

STEINBERG, J. C. AND D. W. FARNSWORTH: Acoustic properties of small gongs, (Abstract) 5

STOKOWSKI, LEOPOLD: New horizons in music, 11–19, (Abstract) 7

STOWELL, E. Z.: Tuning-fork audiometer and noise observations in Newport News, Virginia, 344–352

SWARTZEL, K. D., JR.: (see Bedell, E. H.) (Abstract) 171–172

T

TAYLOR, JOHN BELLAMY: Vocal chords control pitch only and not vocal or vowel quality, (Abstract) 175

W

WEGEL, R. L., R. R. RIESZ AND R. B. BLACKMAN: Low frequency thresholds of hearing and of feeling in the ear and ear mechanism, (Abstract) 6

WEVER, E. G. AND C. W. BRAY: Auditory nerve responses and auditory theory, (Abstract) 10

WHITE, F. E.: (see Lindsay, R. B.) 155–168

WHITE, S. D.: (see Sivian, L. J.) 288–321, (Abstract) 176–177

WOLF, S. K. AND W. J. SETTE: Dependence of measured absorption coefficients upon position and quantity of material, (Abstract) 172

WOLFF, IRVING AND FRANK MASSA: Use of pressure gradient microphones for acoustical measurements, 217–234

Y

YOUNG, PAUL O.: (see Parkinson, John S.) (Abstract) 171

BOOK REVIEWS

ACOUSTICAL ENGINEERING. W. West. 353–354

ACOUSTICS AND ARCHITECTURE. Paul E. Sabine. 268–269

ARCHITECTURAL ACOUSTICS. Vern O. Knudsen. 169

FORTSCHRITTE DER PHYSIKALISCHEN AND TECHNISCHEN AKUSTIK. Ferdinand Trendelenburg. 269–270

INTRODUCTORY ACOUSTICS. George W. Stewart. 353

VIBRATION PREVENTION IN ENGINEERING. Arthur L. Kimball. 269